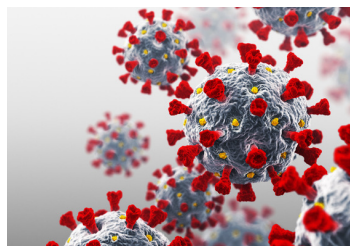


Covid-19 "Vital Signs"

Issue # 325

April 28, 2021



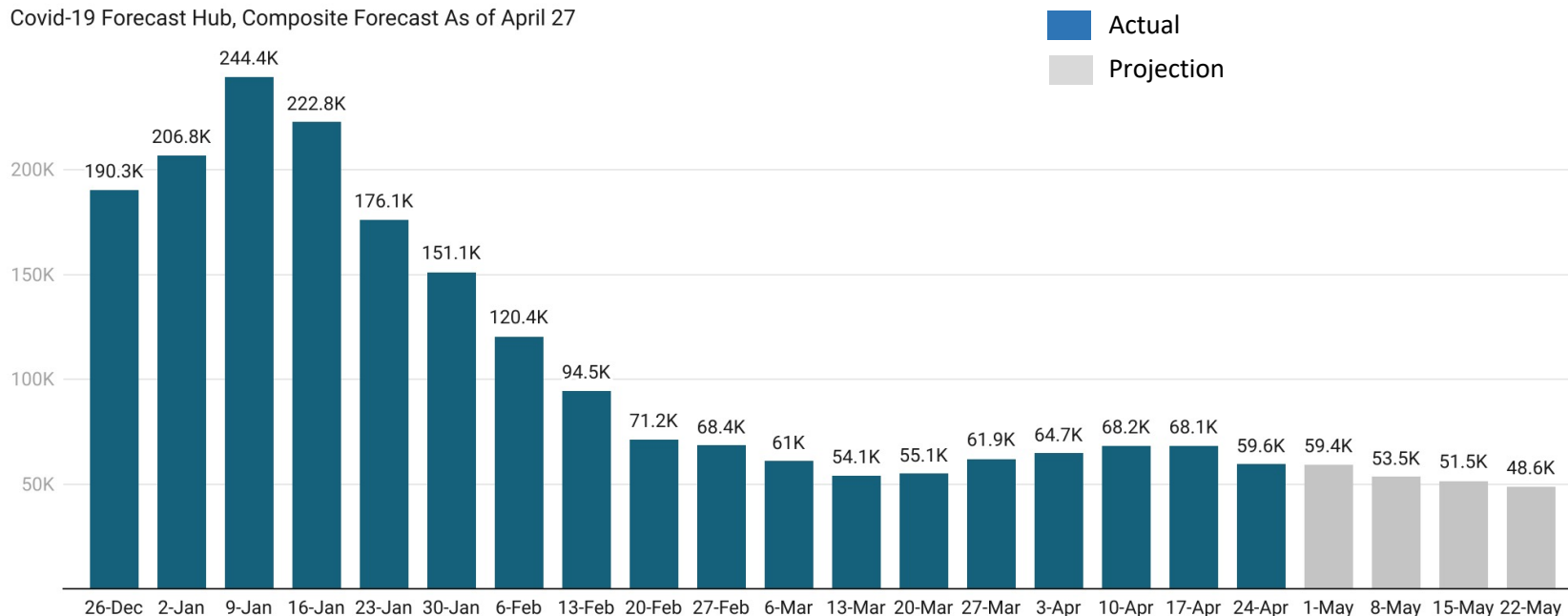
Covid-19 "Vital Signs"

Covid-19 Cases: Ensemble Forecast

The most recent ensemble forecast projects that new daily cases decline each of the next four weeks. By the end of May, there may be fewer new cases than any time since March 2020.

Newly-Detected Cases Per Day

Covid-19 Forecast Hub, Composite Forecast As of April 27



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

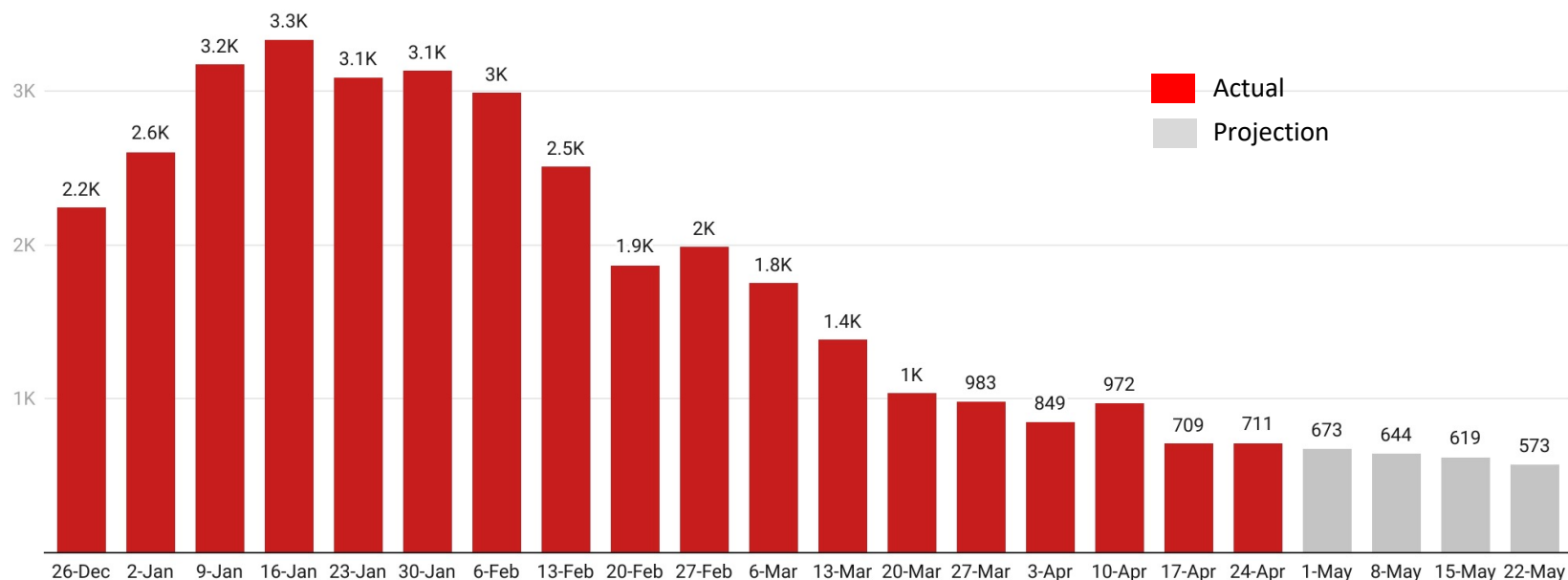
<https://viz.covid19forecasthub.org>

Death Projections – Ensemble Forecast

The most recent ensemble forecast projects that deaths declines each of the next four weeks.

Newly-Reported Deaths Per Day

Covid-19 Forecast Hub, Composite Forecast As of April 27



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

<https://viz.covid19forecasthub.org>

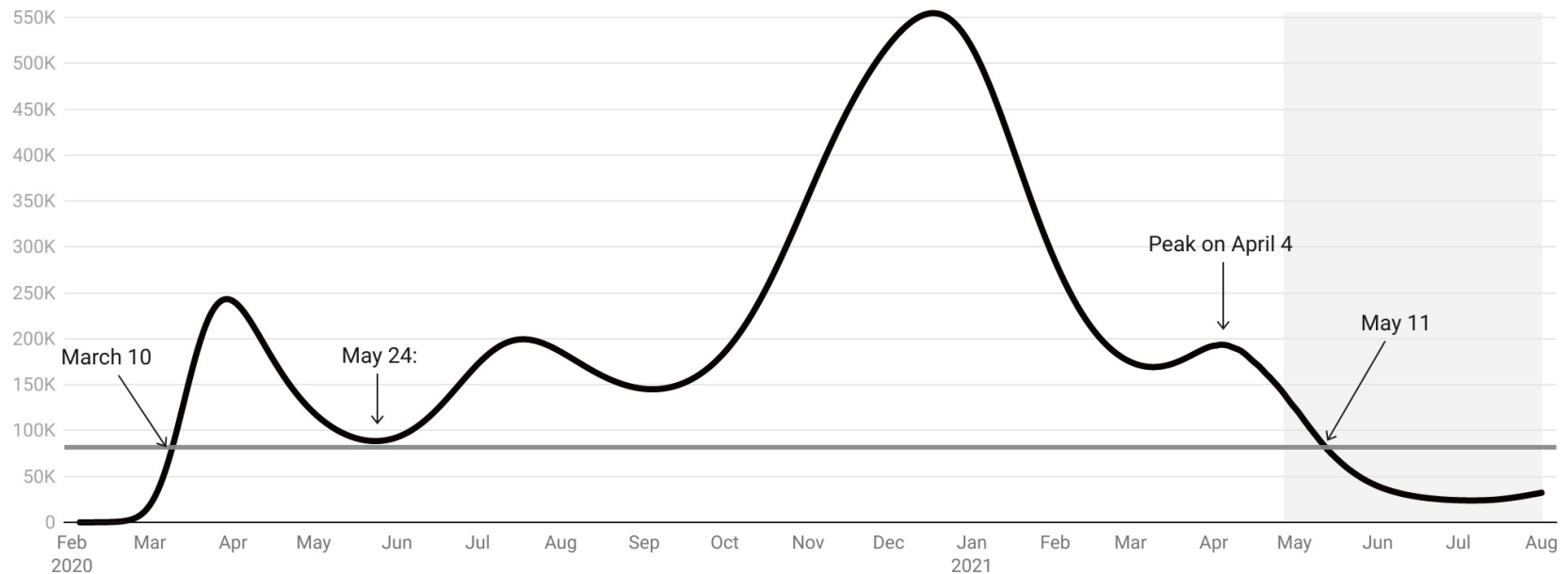
Covid-19 "Vital Signs"

Estimated Infections IHME Projection

Estimated daily infections are expected to decline through July. By May 11, estimated new infections fall to the lowest point since March 10, 2020.

Estimated and Projected Infections

Institute For Health Metrics and Evaluation



Forecast Date: April 23

Chart: Health Industry Advisor LLC • Source: Institute For Health Metrics and Evaluation • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Inpatient Admissions – IHME Projections

Projected Covid-19 admissions peaked two weeks ago according to the latest IHME model. By May 20th, projected admissions drop lower than at any time since mid-March 2020.

Estimated & Projected Hospital Covid-19 Admissions

Institute for Health Metrics and Evaluation



Forecast Date: April 23

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

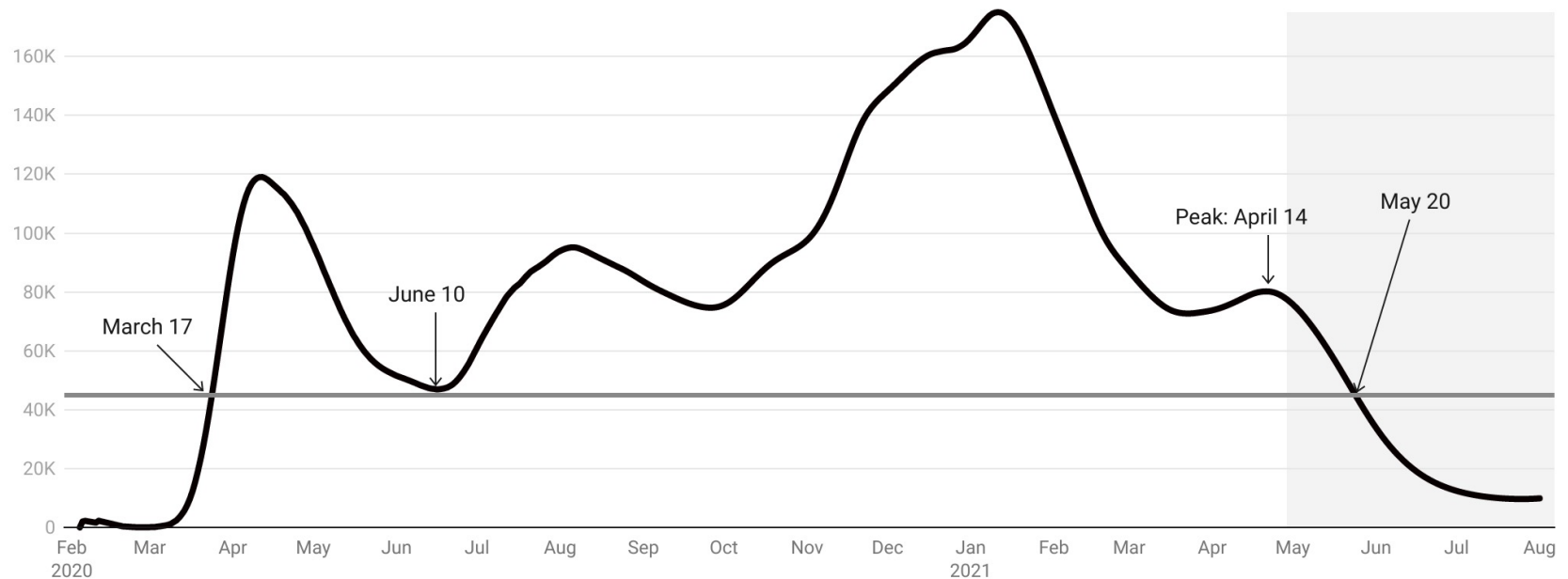
Covid-19 "Vital Signs"

Covid-19 Inpatient Census – IHME Projections

Projected Covid-19 admissions peaked nearly two weeks ago according to the latest IHME model. By May 20th, projected admissions drop lower than at any time since mid-March 2020.

Estimated & Projected Hospital Covid-19 Inpatient Census

Institute for Health Metrics and Evaluation



Forecast Date: April 23

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

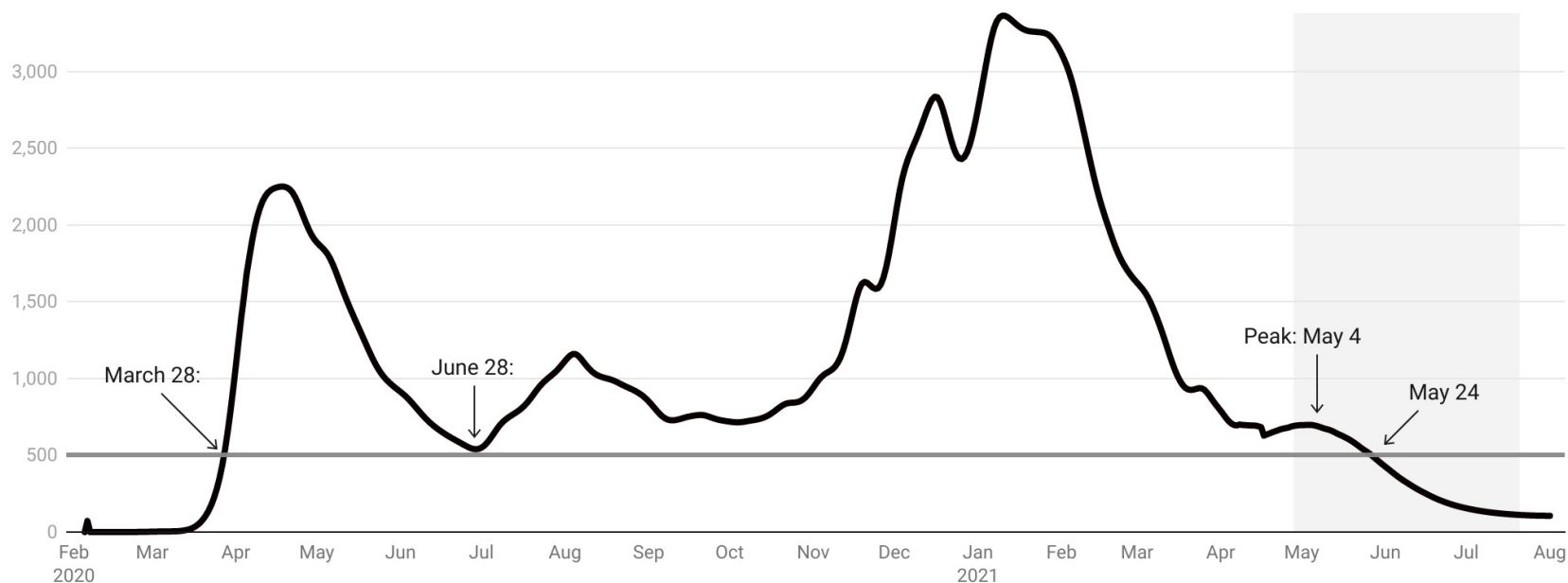
Covid-19 "Vital Signs"

Deaths With Covid-19: IHME Projection

Projected deaths with Covid-19 increase until May 4th then decline for the remainder of the forecast period. By May 24th, projected Covid-19 deaths fall lower than at any time since the last week in March 2020.

Estimated & Projected Deaths With Covid-19

Institute for Health Metrics and Evaluation



Forecast Date: April 23

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rates is lower than any of the past three weeks. Outside the U.S., cases continue increasing at an alarming rate. India continues to be the global epicenter, with 44% (363,000) of all new cases yesterday.

Newly Detected Cases

As of April 27

■ United States ■ Outside the US

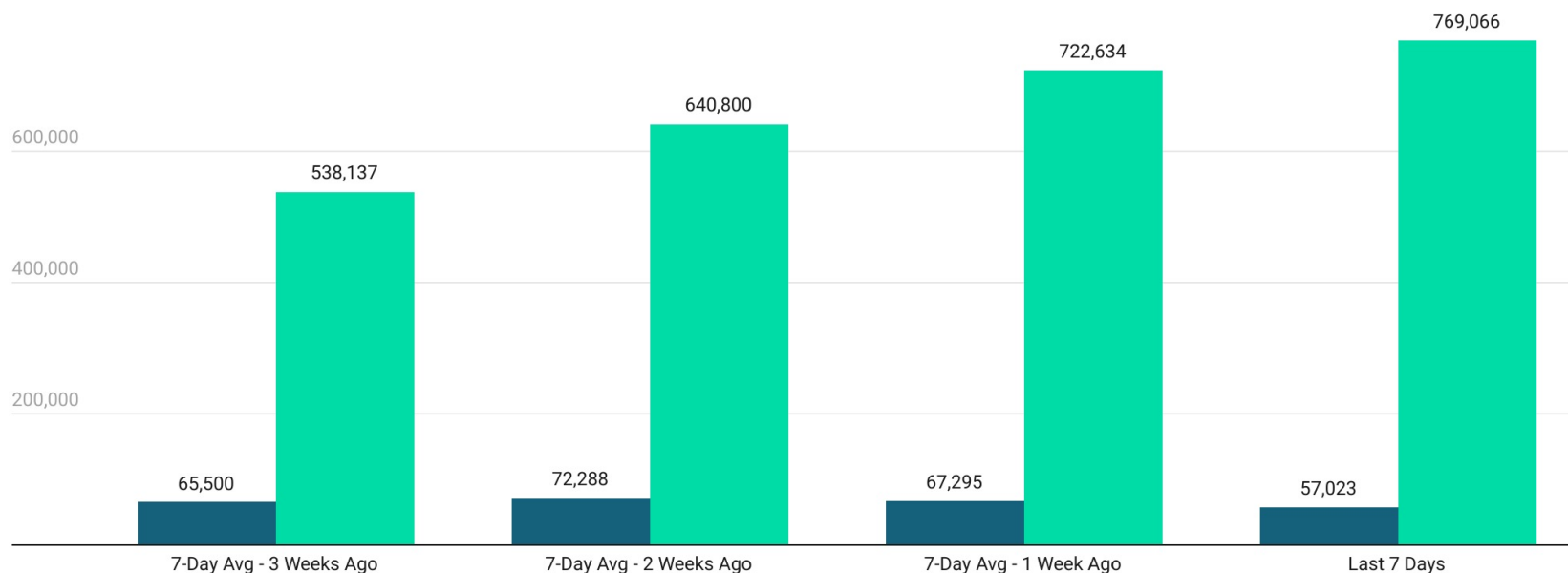


Chart: Health Industry Advisor LLC • Source: The Atlantic • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Changes in New Cases

The rate of change in new cases has slowed recently. In the U.S., this rate turned negative nine days ago. Worldwide, although cases are increasing day-over-day, the rate of increase has dropped none straight days.

Week-Over-Week Changes in Newly-Detected Cases: USA v. Worldwide

7-Day Moving Average, As of April 27

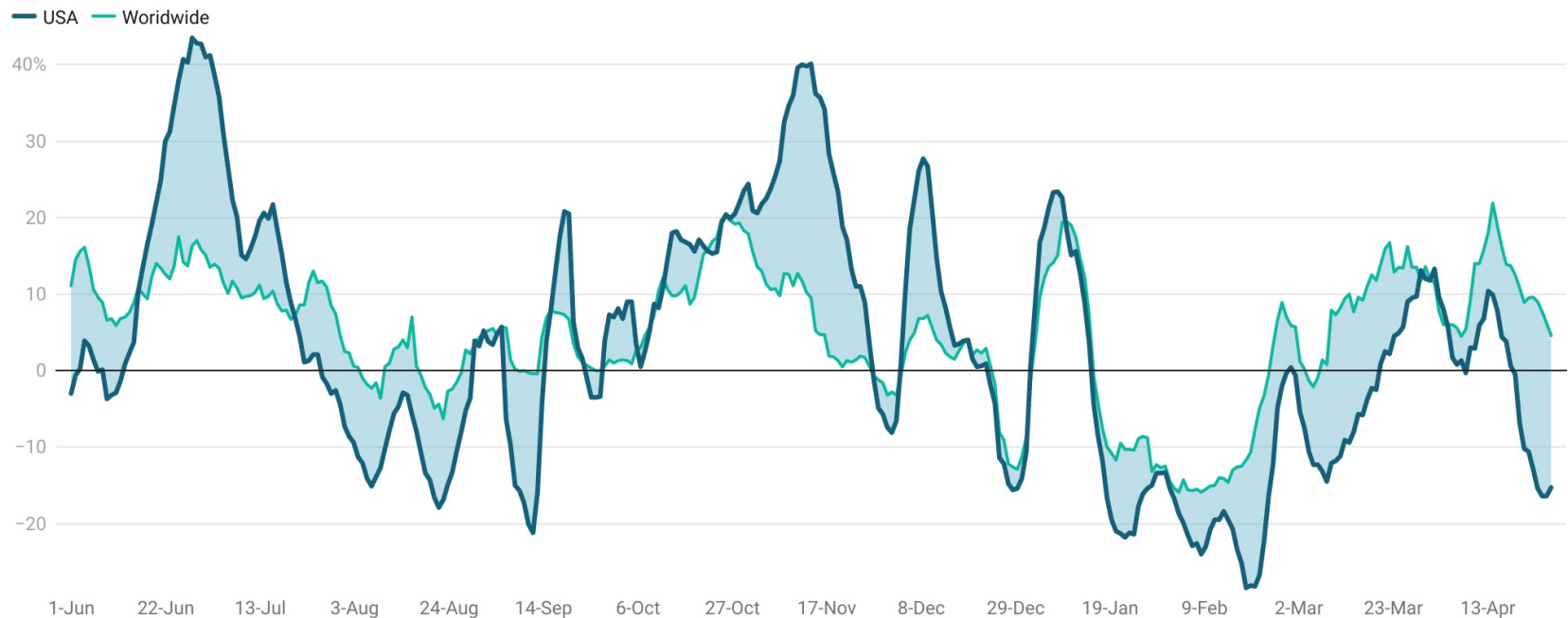


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases / Million - US

The U.S. 7-day new case rate declined for the thirteenth straight day, dropping 22% during that time. This rate is lower than it has been in thirty-five days.

Newly-Detected Cases / Million

7-Day Average

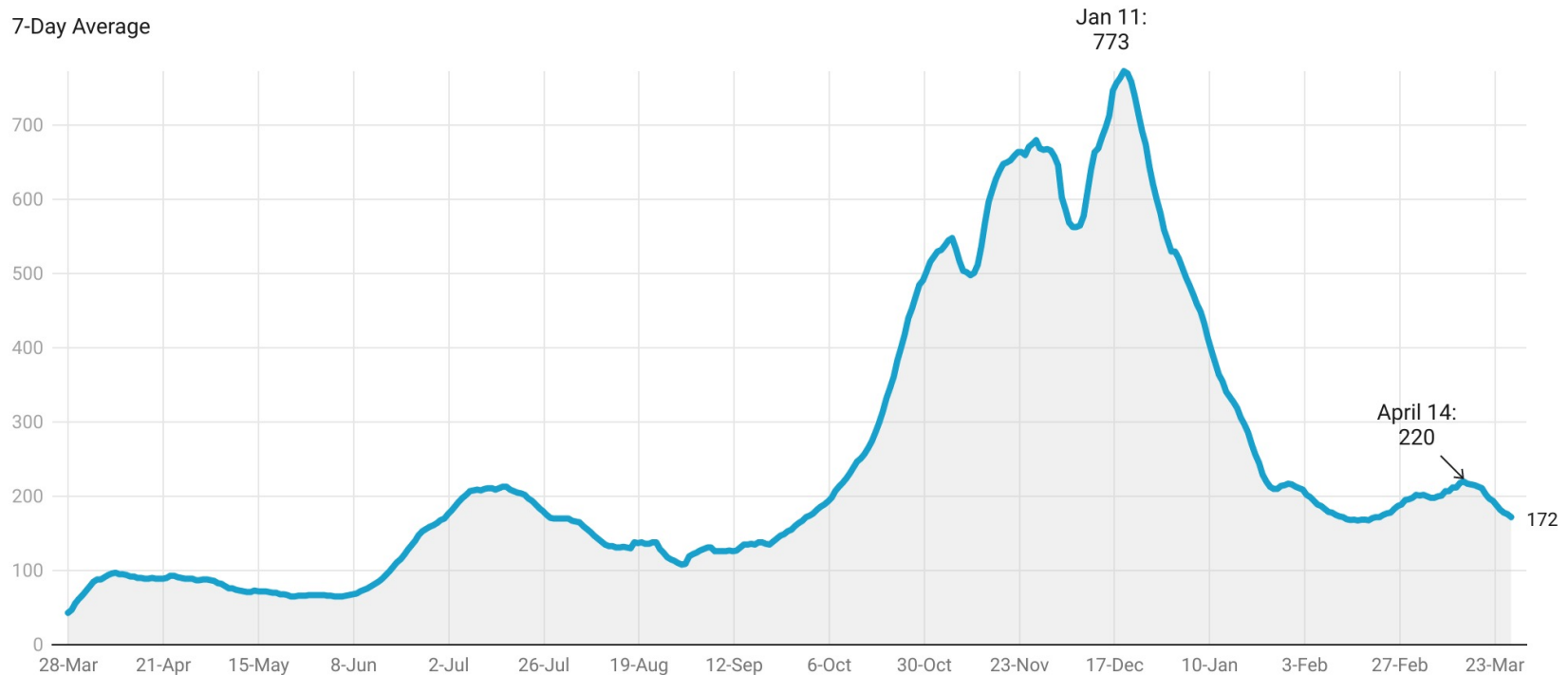


Chart: Health Industry Advisor LLC • Created with Datawrapper

Estimated Daily Infections & New Case Rates

Estimated infections have dropped to the lowest level in nine months.

Estimated Daily Infections v. Detected Cases

Yale/Harvard Schools of Public Health Model

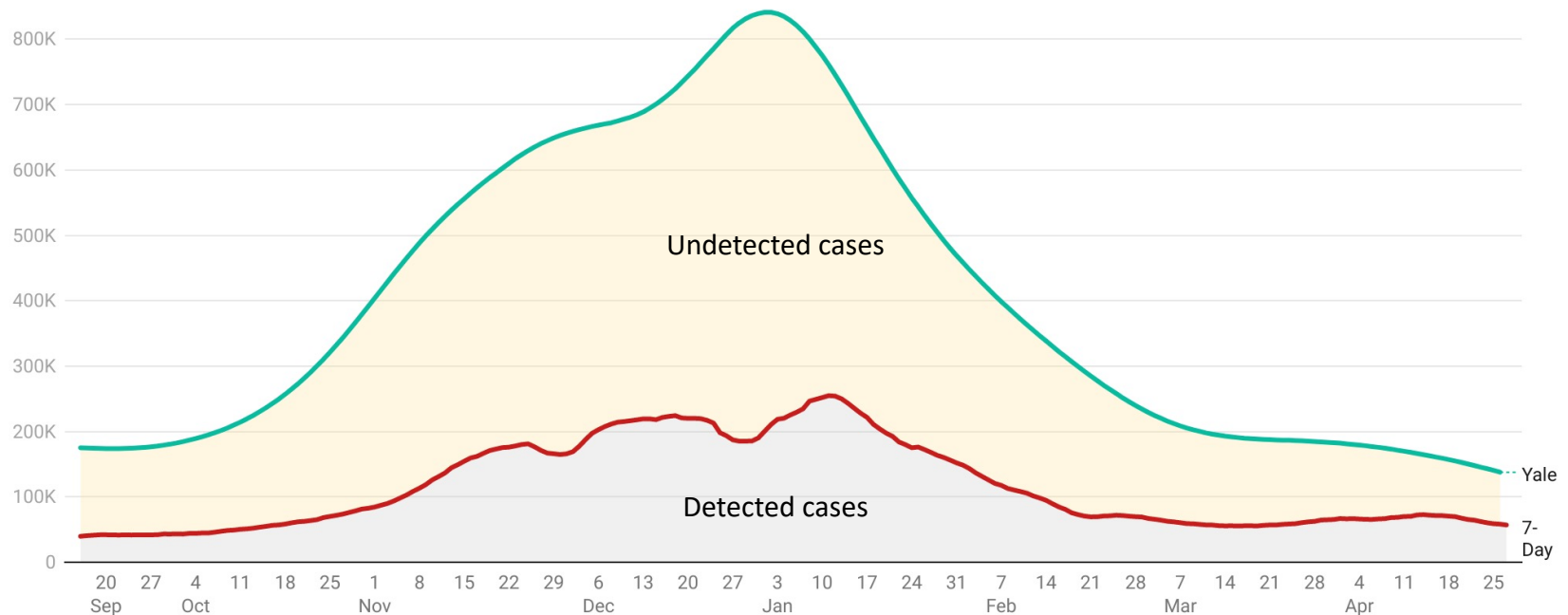
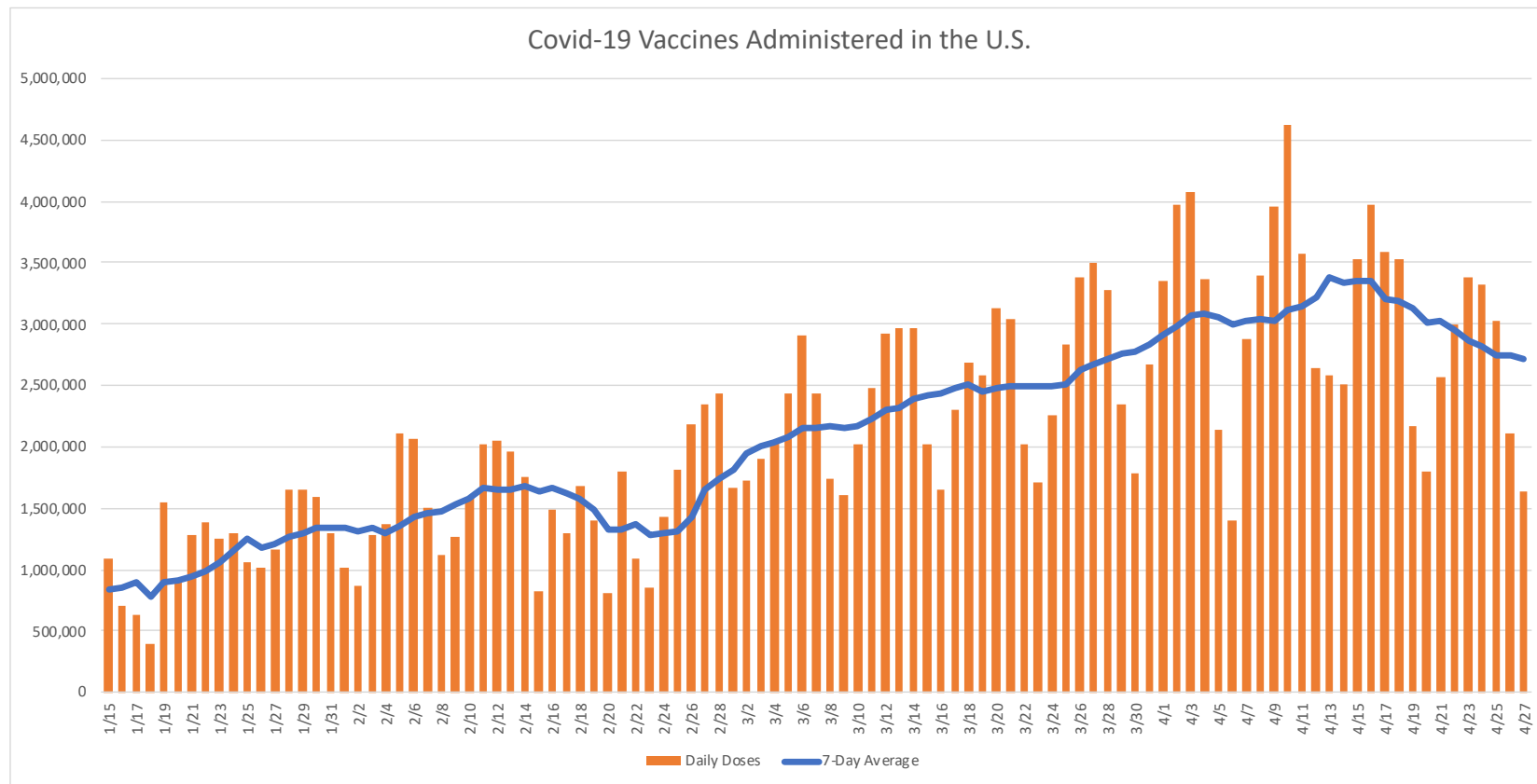


Chart: Health Industry Advisor LLC • Source: Youyang Gu, Yale School of Public Health • Created with Datawrapper

Pace of Vaccinations

The 7-day average rate declined over the past two weeks.



Vaccination Status By Age

Seniors are participating in the process at strong levels. Fewer than one-in-five have yet to be jabbed. Younger adults have participated at good rates since becoming eligible.

Vaccination Status By Age

As of April 26

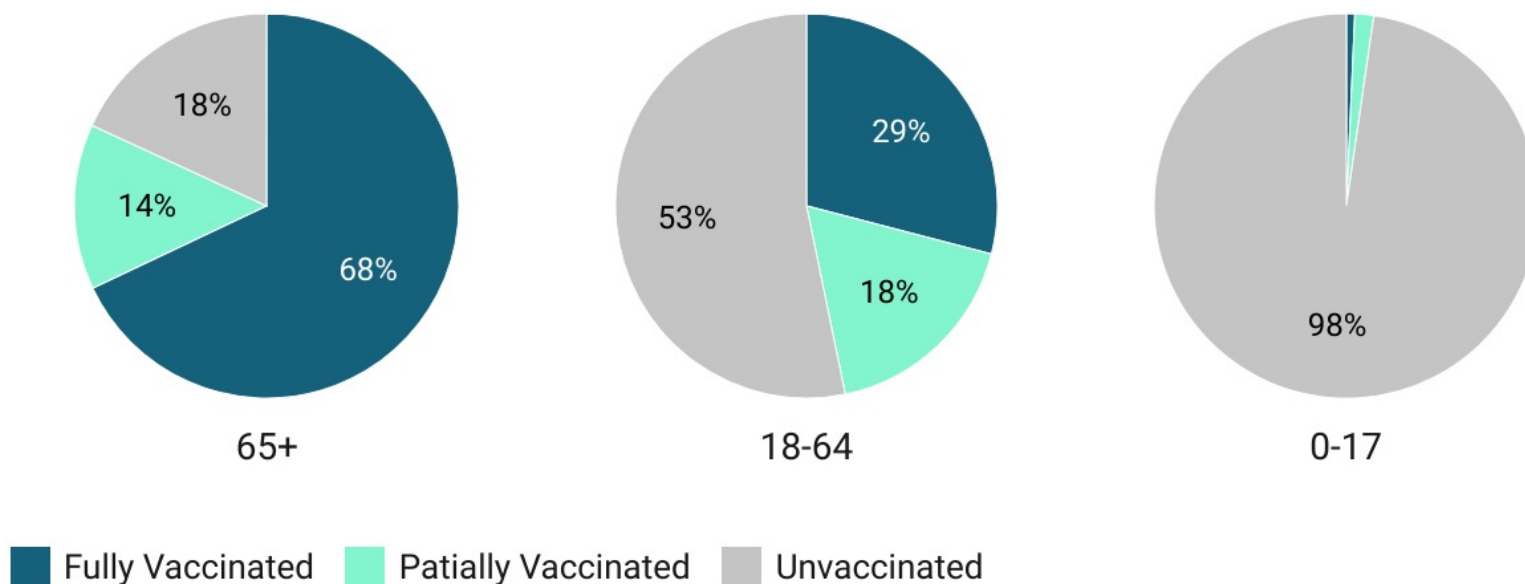


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Covid-19 "Vital Signs"

Vaccine Tracking

To date, the US has distributed 298 million doses and administered 232 million. 95.5 million people are fully inoculated – 37.4% of the adult population. Another 42 million people have received the first of two required doses.

Vaccination Progress

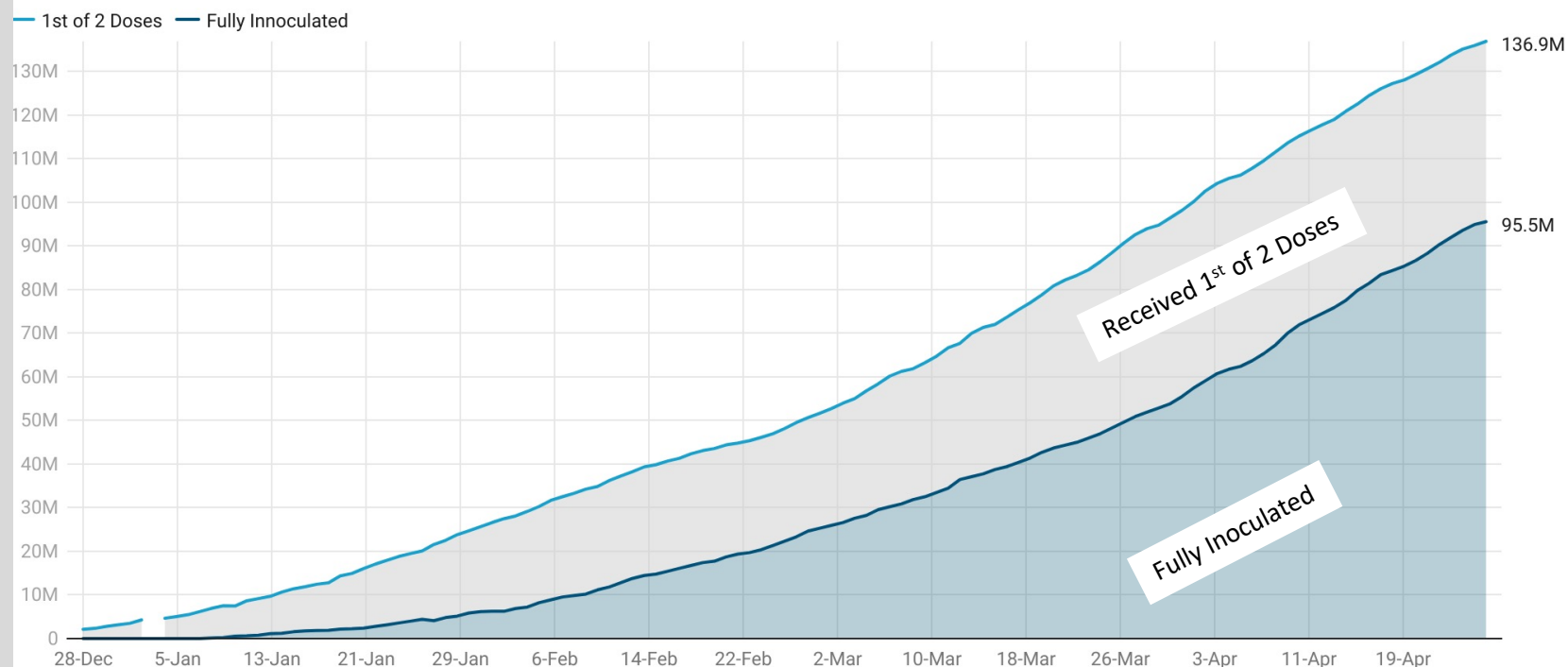


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

Vaccine data from: [Centers for Disease Control and Prevention](#) and [Bloomberg Vaccine Tracker](#)

Covid-19 Inpatient Census

Covid-19 inpatient census declined week-over-week.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

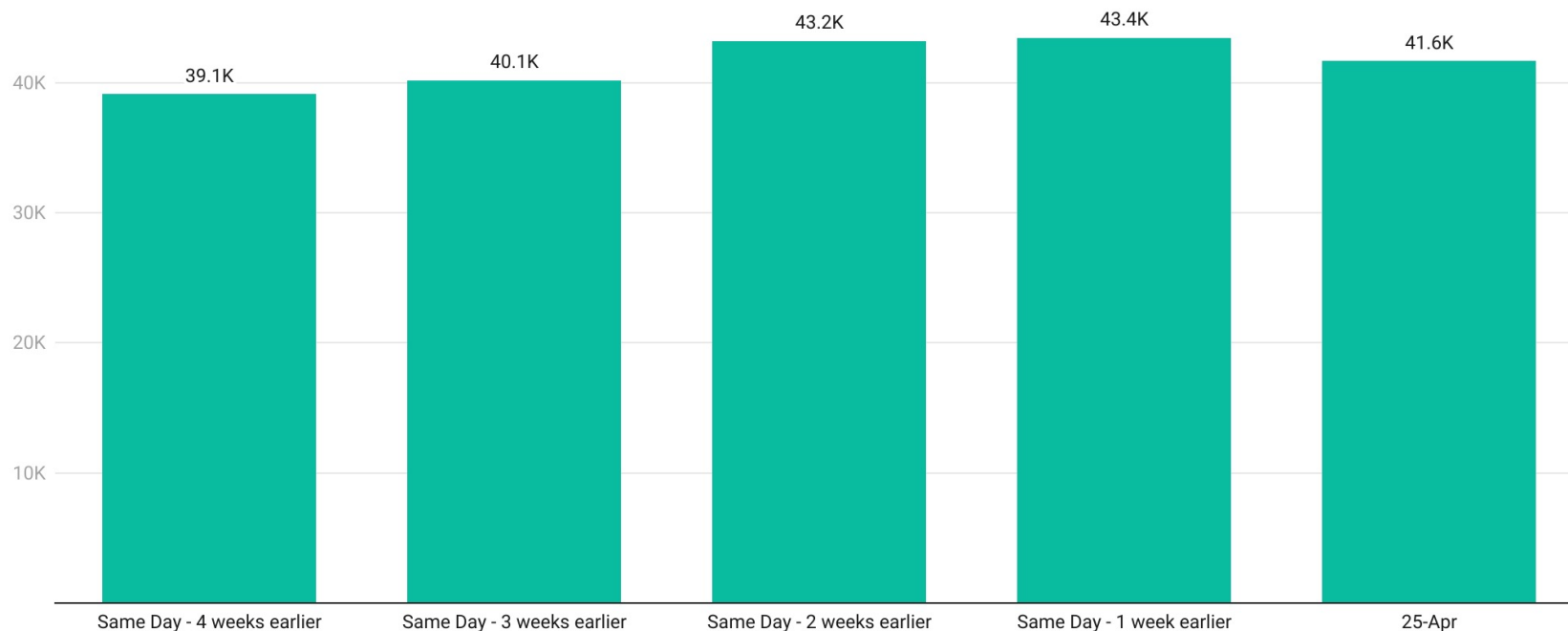


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Deaths Reported With Coronavirus

The 7-day death rate declined 7% week-over-week and 13% in the past three weeks.

Daily Deaths Reported With Coronavirus

As of April 27

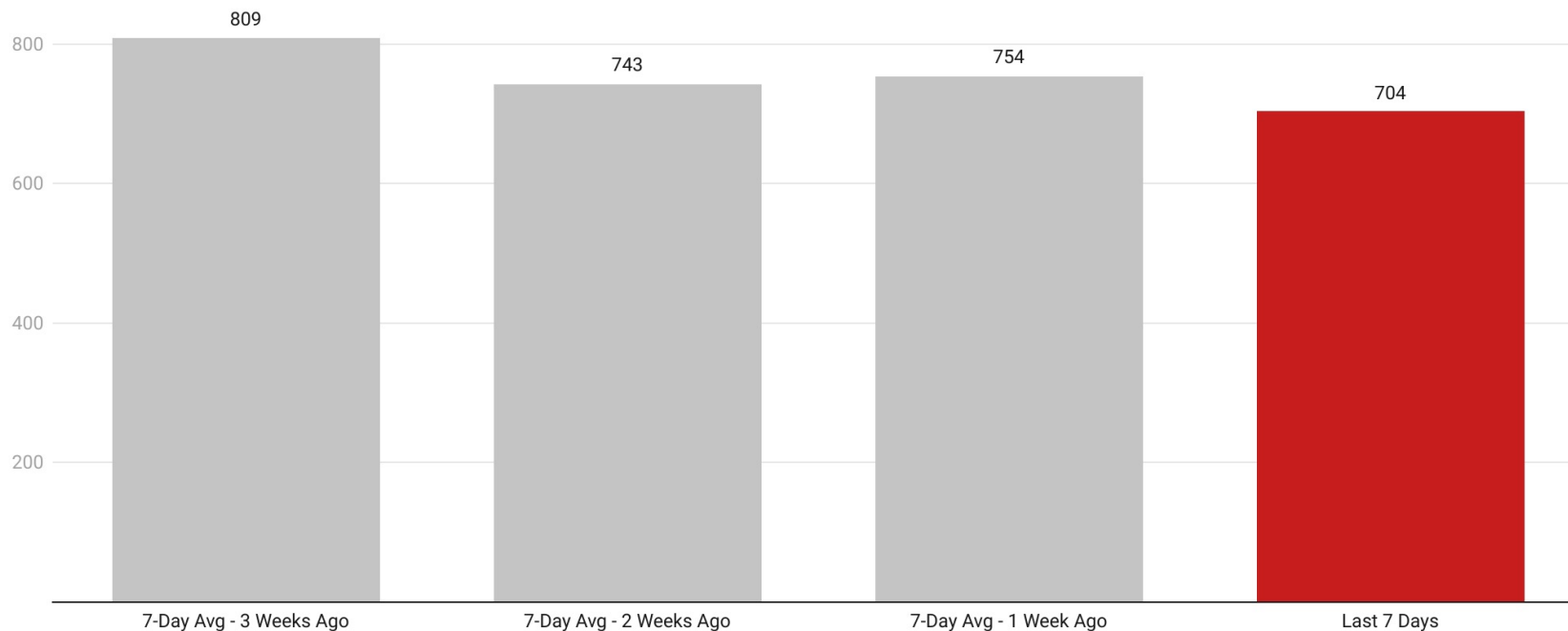


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Deaths With Coronavirus

Deaths with coronavirus (7-day average) declined to its lowest level in more than nine months.

Deaths With Coronavirus

7-Day Average, Through April 27

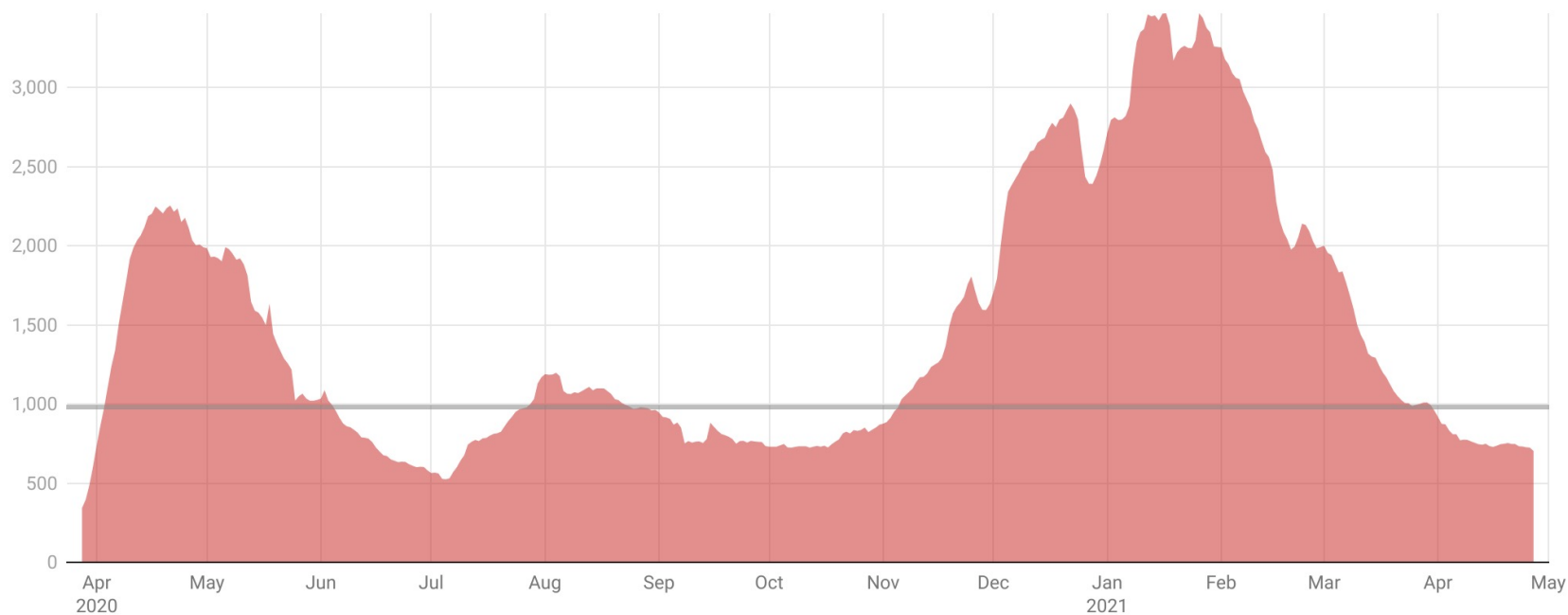


Chart: Health Industry Advisor LLC • Created with Datawrapper

Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state>
- U.S. Department of Health & Human Services <https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb>
- Worldometers.info: <https://www.worldometers.info/coronavirus/>
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance <https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- Centers for Disease Control and Prevention, COVID Data Tracker <https://www.cdc.gov/covid-data-tracker/index.html#mobility>
- Centers for Disease Control and Prevention, Vaccines, <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <http://www.healthdata.org/covid/data-downloads>
- New York Times, Covid-19 data <https://github.com/nytimes/covid-19-data>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <https://github.com/CSSEGISandData/COVID-19>
- COVID-19 Projections Using Machine Learning, <https://covid19-projections.com>
- Our World In Data, <https://ourworldindata.org/covid-vaccinations>
- Covid-19 Forecast Hub, <https://viz.covid19forecasthub.org>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <https://covidestim.org>
- Bloomberg Vaccine Trackers, <https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH>